

**CHARLES COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
PO BOX 1050
WHITE PLAINS, MARYLAND 20695
Phone 301-609-6751 Fax 301-609-6684**

**BAY RESTORATION FUND GRANT APPLICATION CHECKLIST- FY21
New Construction is no longer being funded**

Applicant Name: _____ Property ID# _____

Phone Number: _____ Date Package submitted: _____

Address: _____

The items below are needed before an agreement letter can be written. Please submit them together as soon as possible as **one package**.

- BRF Application
- Bid from a BAT manufacturer
- Federal Tax return to verify income (Submit first 2 pages of Federal Tax return)
- Site Plan. (Hand-drawn site plans acceptable for repairs only)
- For a site with a failing drain field, the following must be acquired and submitted with this package
 - Septic Permit
- ❖ **For BAT connections only, before an agreement letter can be written a review of the property file will be completed to ensure that there is a septic system to be connected to. If septic information isn't in the file then the system will need to be partially uncovered to make sure that there is a drainfield present.**

Once all of the above have been submitted an agreement letter may be issued.

- Agreement signed & stamped by Land Records and returned to the Health Dept.

Once everything above has been submitted a permit **may** be issued.

- Permit issued by Health Dept is good for **60 days only**. **The tank must be installed and be inspected by Planchek within 60 days of the permit being issued.**

Once the tank is installed an inspection will be done by the Health Dept after the electrical has been inspected by Planchek.

- Copy of electrical inspection from Planchek

The following will need to be submitted to the Health Department after the tank has been installed.

- Letter from homeowner stating satisfactory install of tank
- Statement from distributor/Certificate of Insurance
- Invoice

PLEASE KEEP THIS OR MAKE A COPY FOR YOUR RECORDS

**CHARLES COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
4545 CRAIN HIGHWAY, PO BOX 1050
WHITE PLAINS, MARYLAND 20695**

**BAY RESTORATION GRANT APPLICATION
NITROGEN-REDUCING PRETREATMENT UNIT**

This application is designed to aid in determining your eligibility. Submit completed applications to the address above. Please note if you are issued a BRF permit it will be valid for 60 days past the date of issuance.

<u>BUILDING</u>	<u>TYPE</u>	<u>BAT Funding Eligibility for Type of Property</u>	<u>WATER SUPPLY</u>
A: <input type="checkbox"/> Existing Home: B: <input type="checkbox"/> Existing Business C: <input type="checkbox"/> Existing Non-profit	<input type="checkbox"/> Repair <input type="checkbox"/> Upgrade <input type="checkbox"/> Other _____	<input type="checkbox"/> A: 100% BAT cost, if Income < \$300K (Check Total Income line from 1040) 50% BAT cost, if Income > \$300K <input type="checkbox"/> B: 50% of BAT cost (up to \$10,000) 75% of BAT cost (up to \$15,000) (Must be registered with the state's Small Business Reserve Program) <input type="checkbox"/> C: 100% of BAT cost (keep copy of non-profit status in file)	<input type="checkbox"/> Existing Water Tag # CH- _____ <input type="checkbox"/> Public Water
If income is more than \$300,000 only 50% of the BAT cost is eligible for BRF Funding			

1. OWNER _____ ADDRESS _____
CITY _____ STATE _____ ZIP CODE _____
PHONE NUMBER (HOME) _____ WORK _____
EMAIL ADDRESS: (Communication regarding BRF only) _____
SOCIAL SECURITY NUMBER # (Required For Payment Purposes) _____
2. BUILDING ADDRESS _____
(House Number, Street, City)
3. PROPERTY TAX ACCOUNT NUMBER _____
4. SUBDIVISION _____ LOT NUMBER _____ TAX MAP _____ PARCEL _____

**** DESCRIBE ANY PROBLEMS WITH YOUR EXISTING SYSTEM ** i.e. (Tank Failure, Drainfield failing, etc)**

5. LOT LOCATED WITHIN CHESAPEAKE BAY CRITICAL AREA: YES _____ NO _____ UNKNOWN _____
6. NUMBER OF BEDROOMS: _____

NAME, MAILING ADDRESS AND PHONE NUMBER OF APPLICANT:

ATTACH A SITE PLAN SHOWING THE SIZE AND SHAPE OF THE PROPERTY, HOUSE LOCATION, WELL AND SEPTIC SYSTEM ON THE PROPERTY.

The applicant hereby certifies and agrees that:

(1) the applicant is authorized to make the application; (2) the information is correct; (3) the applicant will comply with all regulations of Charles County which are applicable hereto; (4) the applicant will perform no work on the above property not specifically described in this application; (5) The applicant will ensure that the BAT tank will be installed and have the final electrical inspection by Planchek completed within 60 days of the BRF permit being issued, (6) the applicant grants County officials and approved contractors the right to enter onto the property for the purpose of inspecting the work permitted, posting notices, and performing maintenance and sampling.

SIGNED _____ DATE _____

Instructions for Completing the Bay Restoration Grant Application for a Nitrogen-Reducing Pretreatment Unit

The following are instructions for completing an application to upgrade existing septic systems with nitrogen reducing pretreatment units. The information listed below corresponds to the items listed on the Bay Restoration Grant Application.

- Building: Indicate the type of building on the property.
- Type: Indicate the type of septic system project for the property.
- Water Supply: Indicate the type of water supply on the property.

Item 1: List the property owner's name and mailing address including the street address, city, state, and zip code. Also include the home and work telephone numbers for the property owner.

Item 2: List the building address of the property, including the house number, street name, and city.

Item 3: Transfer the 12-digit tax account number from the corresponding County property tax bill.

1) Applicant Information:

Applicant must sign the application and agree to the terms of the application. Provide name, mailing address and phone number of the applicant in the box provided.

2) Site Plan:

Submit a site plan showing the size and shape of the property, house location, well and septic system on the property, property lines, rights of way, easements, and existing improvements such as decks, garages, sheds and swimming pools.

3) Federal Tax return:

A copy of the previous year's federal tax return. **First 2 pages only**

4) Bid:

A bid from a B.A.T tank manufacturer is required. Owner will present to the County their BAT System of choice from the Fixed Pre-Approved Vendor list. Operating costs will be at the Owner's expense.

Application package is not complete until all of the above requests have been met. Once all requests are met a BRF agreement will be typed for pick-up and taken to land records for recording. Only after the agreement is brought back to the office recorded will a permit be typed. This permit will only be valid for 60 days past the date of issuance.

The BAT will need to be installed and have a final electrical inspection by Planchek during that 60 day period.

For More Information Contact:
Latoya Reeder
Well & Septic Program
301-609-6792
Latoya.reeder1@maryland.gov

Mail Application To:
Charles County Department of Health
Environmental Health Division
4545 Crain Highway
PO Box 1050
White Plains, Maryland 20695

BATs eligible for Bay Restoration Fund grant program – 3 pages

The following technologies have successfully completed field verification (BAT Class I) Page 1 of 3

Model	Contact Information	Certifications	MDE Field Performance Analysis for Total Nitrogen
Fuji Clean CN-Series	<p align="center">Manufacturer</p> <p align="center">Fuji Clean USA</p> <p align="center">www.fujicleanusa.com</p> <p align="center">Local Distributor</p> <p align="center">Bay Area Environmental Don Jones – (410) 836-9206 manager@jonespumpservice.com</p>	<p align="center">NSF 245</p> <p align="center">And other</p>	<p align="center">Mean % Reduction of TN:</p> <p align="center">77%</p> <p align="center">Mean Effluent Concentration:</p> <p align="center">14.1 mg/l</p> <p align="center">Data & Analysis</p>
Advantex®-RT	<p align="center">Manufacturer</p> <p align="center">Orenco Systems®, Inc. www.orenco.com/</p> <p align="center">Local Distributor</p> <p align="center">Atlantic Solutions Bob Johnson- 1(877)214-9283 bjohnson@septicssystems.net</p>	<p align="center">Other 3rd Party</p>	<p align="center">Mean % Reduction of TN:</p> <p align="center">76%</p> <p align="center">Mean Effluent Concentration:</p> <p align="center">14.5 mg/l</p> <p align="center">Data & Analysis</p>
Advantex®-AX20	<p align="center">Manufacturer</p> <p align="center">Orenco Systems®, Inc. www.orenco.com/</p> <p align="center">Local Distributor</p> <p align="center">Atlantic Solutions Bob Johnson- 1(877)214-9283 bjohnson@septicssystems.net</p>	<p align="center">Other 3rd Party</p>	<p align="center">Mean % Reduction of TN:</p> <p align="center">71%</p> <p align="center">Mean Effluent Concentration:</p> <p align="center">17.2 mg/l</p> <p align="center">Data & Analysis</p>
SeptiTech®	<p align="center">Manufacturer</p> <p align="center">SeptiTech, Inc. www.septitech.com</p> <p align="center">Local Distributors Eastern Region</p> <p align="center">Gillespie & Sons Inc. Jim Gillespie - (410) 778-0900 jimg@gillespieandson.com</p> <p align="center">Central Region</p> <p align="center">Bay Area Environmental Don Jones - (410) 836-9206 manager@jonespumpservice.com</p>	<p align="center">ETV and NSF 245</p>	<p align="center">Mean % Reduction of TN:</p> <p align="center">67%</p> <p align="center">Mean Effluent Concentration:</p> <p align="center">19.7 mg/l</p> <p align="center">Data & Analysis</p>

<p>Hydro-Action® - AN Series</p>	<p>Manufacturer Hydro-Action/AK Industries Inc.. www.hydro-action.com</p> <p>Regional Distributor Blue Water Environmental, LLC Mark O'Rourke - (240) 444-6401 mark@bwenvironmental.com.</p> <p>Local Distributors Central-Eastern Region Sample Excavating Co. Inc. Mike Sample - (443) 807-8639 sample415@yahoo.com</p> <p>Southern Region Outback Porta-Jon, Inc. Steve Wilson- (410) 257-1600 wilson05@comcast.net</p>	<p>NSF 245</p>	<p>Mean % Reduction of TN: 66%</p> <p>Mean Effluent Concentration: 20.3 mg/l</p> <p>Data & Analysis</p>
<p>Hoot® BNR</p>	<p>Manufacturer Hoot Aerobic Systems, Inc. www.hootsystems.com</p> <p>Local Distributor Mayer Bros. Nancy Mayer- (410) 796-1434 nancy@mayerprecast.com</p>	<p>Other 3rd Party</p>	<p>Mean % Reduction of TN: 64%</p> <p>Mean Effluent Concentration: 21.4 mg/l</p> <p>Data & Analysis</p>
<p>RetroFAST</p>	<p>Manufacturer Bio-Microbics, Inc. http://www.biomicrobics.com</p> <p>Local Distributors Eastern Region Gillespie & Sons, Inc. Jim Gillespie- (410) 778-0900 jim@gillespieandson.com</p> <p>Central Region Bay Area Environmental Don Jones - (410) 836-9206 manager@jonespumpservice.com</p>	<p>ETV</p>	<p>Mean % Reduction of TN: 58%</p> <p>Mean Effluent Concentration: 25.4 mg/l</p> <p>Data & Analysis</p> <p>Limited to households of 1 to 4 occupants and 3 bedroom or less</p>

Hydro-Action® - AN Series	<p>Manufacturer Hydro-Action/AK Industries Inc.. www.hydro-action.com</p> <p>Regional Distributor Blue Water Environmental, LLC Mark O'Rourke - (240) 444-6401 mark@bwenvironmental.com.</p> <p>Local Distributors Central-Eastern Region Sample Excavating Co. Inc. Mike Sample - (443) 807-8639 sample415@yahoo.com</p> <p>Southern Region Outback Porta-Jon, Inc. Steve Wilson- (410) 257-1600 wilson05@comcast.net</p>	NSF 245	<p>Mean % Reduction of TN: 66%</p> <p>Mean Effluent Concentration: 20.3 mg/l</p> <p>Data & Analysis</p>
Hoot® BNR	<p>Manufacturer Hoot Aerobic Systems, Inc. www.hootsystems.com</p> <p>Local Distributor Mayer Bros. Nancy Mayer- (410) 796-1434 nancy@mayerprecast.com</p>	Other 3rd Party	<p>Mean % Reduction of TN: 64%</p> <p>Mean Effluent Concentration: 21.4 mg/l</p> <p>Data & Analysis</p>
RetroFAST	<p>Manufacturer Bio-Microbics, Inc. http://www.biomicrobics.com</p> <p>Local Distributors Eastern Region Gillespie & Sons, Inc. Jim Gillespie- (410) 778-0900 jimg@gillespieandson.com</p> <p>Central Region Bay Area Environmental Don Jones - (410) 836-9206 manager@jonespumpservice.com</p>	ETV	<p>Mean % Reduction of TN: 58%</p> <p>Mean Effluent Concentration: 25.4 mg/l</p> <p>Data & Analysis</p> <p>Limited to households of 1 to 4 occupants and 3 bedroom or less</p>

BAY RESTORATION FUND RANKING DOCUMENTATION July 1, 2019

VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE	VERIFIED BY
Singular TNT	\$11,337	Vendor
Singular Green	\$11,337	Vendor
AquaKlear AK6S245	\$12,016	Vendor
BioMicrobics RetroFast**	\$12,688	Vendor
Fuji Clean CEN 5	\$13,516	Vendor
Hydro Action AN series	\$14,303	Vendor
Hoot BNR	\$14,518	Vendor
Fuji Clean CEN 7	\$15,010	Vendor
SeptiTech M400D	\$15,211	Vendor
Advantex AX20	\$16,083	Vendor
Advantex AX20RT	\$17,414	Vendor

All prices are Estimate Averages across Maryland and subject to change per county, contact Manufacturer. The BRF Program no longer funds the non field verified systems for installation. Price does not include electrical costs per year. ** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. Price includes use of new tank. For use of existing tank, manufacturer must certify tank suitable and watertight.

VENDOR IN DESCENDING ORDER	MEAN % REDUCTION TN (Using 60mg/L influent)	MEAN EFFLUENT CONCENTRATION	VERIFIED BY
Fuji Clean CEN 5	77%	14.1 mg/L	MDE
Fuji Clean CEN 7	77%	14.1 mg/L	MDE
Advantex AX20RT	76%	14.5 mg/L	MDE
Advantex AX20	71%	17 mg/L	MDE
SeptiTech M400D	67%	20 mg/L	MDE
Hydro Action AN series	66%	20.3 mg/L	MDE
Hoot BNR	64%	21 mg/L	MDE
BioMicrobics RetroFast**	58%	25.4 mg/L	MDE
Singular Green	55%	27 mg/L	MDE
Singular TNT	55%	27 mg/L	MDE
AquaKlear AK6S245	54%	27.5 mg/L	MDE

As the data for non-field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non-field verified systems as Deliberative Data.

** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	PRICE PER POUND OF N REDUCED	VERIFIED BY
Fuji Clean CEN 5	\$75.52	MDE
Fuji Clean CEN 7	\$85.00	MDE
AquaKlear AK6S245	\$94.68	MDE
Advantex AX20	\$94.84	MDE
Singular TNT	\$95.01	MDE
Singular Green	\$95.01	MDE
Hydro Action AN series	\$95.51	MDE
Advantex AX20RT	\$95.81	MDE
Hoot BNR	\$100.16	MDE
BioMicrobics RetroFast**	\$103.86	MDE
SeptiTech M400D	\$108.31	MDE

Price per pound of N reduced equals (((Price of technology plus (increased electrical costs multiplied by Ten))divided by Ten) divided by (24.32 lbs of N per year multiplied by percent reduction of N by system)) As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non field verified systems as Deliberative Data. ** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	OPERATION AND MAINTENANCE PER YEAR AFTER THE 2 YEAR CONTRACT	MINIMUM NUMBER OF SITE VISITS PER YEAR*	VERIFIED BY
Advantex AX20	\$175.00	1	Vendor
Advantex AX20RT	\$175.00	2	Vendor
Fuji Clean CEN 5	\$185.00	2	Vendor
Fuji Clean CEN 7	\$185.00	2	Vendor
AquaKlear AK6S245	\$250.00	1	Vendor
BioMicrobics RetroFast**	\$275.00	1	Vendor
SeptiTech M400D	\$300.00	1	Vendor
Hoot BNR	\$300.00	2	Vendor
Singular TNT	\$300.00	2	Vendor
Singular Green	\$300.00	2	Vendor
Hydro Action AN series	\$300.00	2	Vendor

All prices are estimates and based on the 2-yr O&M BAT bid submitted to the State. Some prices have been rounded. Prices are subject to change and may vary based on location. Contact manufacturer for O&M price details. * Based off manufacturer-required service visits per year

Additional Charges may apply with certain manufacturers. It is the responsibility of the homeowner to contact the manufacturer for precise details of contract.

VENDOR IN ASCENDING ORDER	1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/year)	INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.14 PER kWh
Advantex AX20RT	210.2 kWh/year	\$29.43
Advantex AX20	210.2 kWh/year	\$29.43
AquaKlear AK6S245	298.7 kWh/year	\$41.82
Fuji Clean CEN 5	446.7 kWh/year	\$62.54
Fuji Clean CEN 7	648.2 kWh/year	\$90.75
Hydro Action AN series	734.26 kWh/year	\$102.80
Hoot BNR	765.77 kWh/year	\$107.21
Singular TNT	979.66 kWh/year	\$137.15
Singular Green	979.66 kWh/year	\$137.15
BioMicrobics RetroFast**	1401.6 kWh/year	\$196.22
SeptiTech M400D	1741.05 kWh/year	\$243.75

\$0.14 is an assumed average kWh rate for Maryland 2019. ** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. HydroAction utilizes a mixer pump during start up. Pump use is discontinued after start up. Usage data will vary after start-up period.

For a list of vendors visit: https://mde.maryland.gov/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Documents/BAT_CLASS_1.pdf	Before selecting a technology for use on the property in question, please contact each vendor to verify the information is current and accurate. MDE is only a facilitator in presenting this information in accordance with HB347. MDE strongly advises that the applicant contact the vendor directly for more information. Please contact the county Environmental Health Division for specific process on submitting an application For a list of county contact information, 410-537-3599
Please contact the Maryland Department of the Environment for specific questions regarding becoming a Best Available Technology in Maryland. For MDE contact information, 410-537-3599	

RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.